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PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTTORNEY'S DOCKET NUMBER P2003J077-WO

CONCERNING A SUBMISS	U.S. APPICATION TO (Hyknyyringe 77 CFR 1.5)							
INTERNATIONAL APPLICATION NO. PCT/US2004/036109	29 October 2004 (29.10.2004)	PRIORITY DATE CLAIMED 05 November 2003 (05.11.2003)						
TITLE OF INVENTION FCC FEED INJECTION ZONE								
APPLICANT(S) FOR DO/EO/US								
	Dean C. Draemel, Todd R. Steffens							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:								
This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.								
	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4. The US has been elected (Article 31	The US has been elected (Article 31).							
A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
a. is attached hereto (requi	a. is attached hereto (required only if not communicated by the International Bureau).							
b. has been communicated	b. has been communicated by the International Bureau.							
c. X is not required, as the ap	c. Is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. An English language translation of	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
a. is attached hereto.	a. is attached hereto.							
b. has been previously sub	b. has been previously submitted under 35 U.S.C. 154(d)(4).							
7. Amendments to the claims of the	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))							
a. are attached hereto (re	a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicate	b. have been communicated by the International Bureau.							
c. have not been made; h	c. have not been made; however, the time limit for making such amendments has NOT expired.							
d. have not been made a	d. have not been made and will not be made.							
8. An English language translation of	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. An oath or declaration of the inver	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
An English language translation of Article 36 (35 U.S.C. 371(c)(5)).	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern document(s) or information included:								
11. An Information Disclosure Statement	ent under 37 CFR 1.97 and 1.98.							
12. An assignment document for reco	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13. A preliminary amendment.								
14. An Application Data Sheet under	An Application Data Sheet under 37 CFR 1.76.							
15. A substitute specification.	A substitute specification.							
16. A power of attorney and/or change	A power of attorney and/or change of address letter.							
17. A computer-readable form of the s	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.							
18. A second copy of the published In	A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19. A second copy of the English lang	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							
20. Other items or information:								

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAP15 Rec'd PCT/PTO 04 APR 2006

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.				ATTORNEY'S DOCKET NUMBER		
	1 <i>1</i> 57479	6	PCT/US2004/0361	09	P2003J077-WO		
B	ng fees are submitted:					ļ	
🗶 a) Basic na	ational fee			\$300.00	\$ 300.00	<u> </u>	
X b) Examin	ation fee		••••••	\$200.00	\$ 200.00		
X c) Search f	iee			\$500.00	\$ 500.00	<u>'</u>	
	TOTAL OF ABOVE CAL	LCULATION	S =	\$1000.00	\$ 1,000.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets	Extra sheets		f each additional 50 or fraction round up to a whole number)	RATE			
31 - 100 =	/50 =		0	x \$250.00	\$ 0.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					\$ 130.00		
CLAIMS	NUMBER FIL	ED	NUMBER EXTRA	RATE	\$		
Total claims	10	- 20 =	0	x \$50.00	\$ 0.00		
Independent clai	ims 1	- 3 =	0	x \$200.00	\$ 0.00		
MULTIPLE DEP	ENDENT CLAIM(S) (if ap	plicable)		+ \$360.00	\$ 0.00	· -	
	<u> </u>		TOTAL OF ABOVE CA		\$ 1,130.00)	
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					0.00		
			•	SUBTOTAL =	\$ 1,130.00	0	
	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					0	
TOTAL NATIONAL FEE =					\$ 1,130.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						0	
TOTAL FEES ENCLOSED = \$ 1,130.00						0	
					Amount to be refunded:	\$	
					Amount to be charged:	\$ 1,130.00	
	Cital geo.						
a. A check in the amount of \$ to cover the above fees is enclosed.							
b. Please charge my Deposit Account No. 05-1330 in the amount of \$ 1,130.00 to cover the above fees. A duplicate copy of this sheet is enclosed.							
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>05-1330</u> . A duplicate copy of this sheet is enclosed.							
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the international Application to pending status.							
SEND ALL CORRESPONDENCE TO:							
EXXONMOBIL RESEARCH AND ENGINEERING COMPANY Shand 1. They							
1545 Route 22 East, P. O. Box 900 SIGNATURE V							
Annandale, New Jersey 08801-0900 United States of America Gerard J. Hughes							
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IAP15 Ros'd PCT/PTO 04 APR 2006 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PCT Application No.: PCT/US2004/036109

§ PCT Operation:

Applicant: Dean C. Draemel, et al.

U.S. National Phase

International Filing Date: 29 October 2004

Agent's Reference No.:

P2003J077

Earliest Priority Date: 05 November 2003

gnature of person mailing correspondence

Title of Invention: FCC FEED INJECTION ZONE

Mail Stop PCT Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

VERIFICATION OF EXPRESS MAIL UNDER 37 CFR 1.10

EV 662834765 US	04 April 2006
Express Mail mailing number	Date of Deposit

I hereby certify that the attached correspondence, consisting of a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (2 pages), an Application Data Sheet (3 pages), and a Preliminary Amendment (3 pages), is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Mail Stop PCT, P. O. Box 1450, Alexandria, VA, 22313-1450.

Regina Tucker-Mattox

Typed/printed name of person mailing correspondence